	Image Doc. Displayed	PT
1	US 20030053513	☐
2	US 20030137022	☒
3	US 20030081645	☒
4	US 6636540	☒
5	US 6597713	☒

⟶ 384 pages !!

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	385/93		Vatan, Pirooz et al.	☒	☐	☐	☐	☐	☐	☐
2			Dautartas, Mindaugas F. et al.	☒	☐	☐	☐	☐	☐	☐
3	372/93; 372/99		Uebbing, John J.	☒	☐	☐	☐	☐	☐	☐
4	372/50		Uebbing, John J	☒	☐	☐	☐	☐	☐	☐
5	372/50		Ouchi, Toshihiko	☒	☐	☐	☐	☐	☐	☐

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L1	259	(compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 14:03	
2	BRS	L2	96	L1 and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 14:03	
3	BRS	L3	0	L2 and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)) with (hermet$7 near4 seal$3))	USPAT; US-PGPUB	2004/02/26 13:18	
4	BRS	L4	0	L2 and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:18	
5	BRS	L5	0	L1 and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:19	
6	BRS	L6	0	L2 and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:19	
7	BRS	L7	3	L1 and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:32	
8	BRS	L10	2	L9 and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 13:26	
9	BRS	L9	3	L8 and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 13:27	
10	BRS	L8	3	20030015776.pn. or 20030026303.pn. or 6674159.pn.	USPAT; US-PGPUB	2004/02/26 13:30	

	Error Definition	Errors
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5		0
6		0
7		0
8		0
9		0
10		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
11	BRS	L13	0	L11 and ((ceramic or metal$5) with (opto adj electronic$2))	USPAT; US-PGPUB	2004/02/26 13:37	
12	BRS	L12	5	L11 and (ceramic or metal$5)	USPAT; US-PGPUB	2004/02/26 13:35	
13	BRS	L14	0	L11 and (opto adj electronic$2)	USPAT; US-PGPUB	2004/02/26 13:37	
14	BRS	L15	0	L11 and (micro adj lens$2 adj array$2)	USPAT; US-PGPUB	2004/02/26 13:38	
15	BRS	L16	0	L11 and (photo adj detector$2)	USPAT; US-PGPUB	2004/02/26 13:39	
16	BRS	L17	1	L11 and (integrat$4 near3 optic$2)	USPAT; US-PGPUB	2004/02/26 13:40	
17	BRS	L11	5	l7 OR l10 OR l9 OR l8	USPAT; US-PGPUB	2004/02/26 13:41	
18	BRS	L18	1082	385/147.ccls.	USPAT; US-PGPUB	2004/02/26 14:00	
19	BRS	L19	3901	372/29.013,29.022,36, 50,98,99,109.ccls.	USPAT; US-PGPUB	2004/02/26 14:01	
20	BRS	L20	8570	257/431-434,678,680,690,693,703-706,729-731,778-780.ccls.	USPAT; US-PGPUB	2004/02/26 14:02	
21	BRS	L21	6879	438/106-116,121-129.ccls.	USPAT; US-PGPUB	2004/02/26 14:02	
22	BRS	L22	19448	l18 OR l19 OR l20 OR l21	USPAT; US-PGPUB	2004/02/26 14:02	

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	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
23	BRS	L23	47	L22 and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 15:11	
24	BRS	L24	7	L23 and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 14:05	
25	BRS	L25	5	L24 not L11	USPAT; US-PGPUB	2004/02/26 14:27	
26	BRS	L26	1	L25 and (sub adj mount$4)	USPAT; US-PGPUB	2004/02/26 14:29	
27	BRS	L27	1	L25 and (micro adj lens$2 adj array)	USPAT; US-PGPUB	2004/02/26 14:33	
28	BRS	L28	3	L25 and (detector or CCD)	USPAT; US-PGPUB	2004/02/26 14:33	
29	BRS	L29	172	L22 and ((385/88,92,93,94).ccls.)	USPAT; US-PGPUB	2004/02/26 15:10	
30	BRS	L30	1	L29 and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 15:11	

	Error Definition	Errors
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24		0
25		0
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L Number	Hits	Search Text	DB	Time stamp
1	259	(compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 14:03
2	96	((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 14:03
3	0	(((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)) with (hermet$7 near4 seal$3))	USPAT; US-PGPUB	2004/02/26 13:18
4	0	(((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:18
5	0	((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((transparent near4 window$2) with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:19
6	0	(((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:19
7	3	((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))	USPAT; US-PGPUB	2004/02/26 13:32
10	2	((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 13:26
9	3	(20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 13:27
8	3	20030015776.pn. or 20030026303.pn. or 6674159.pn.	USPAT; US-PGPUB	2004/02/26 13:30

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13	0	((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and ((ceramic or metal$5) with (opto adj electronic$2))	USPAT; US-PGPUB	2004/02/26 13:37
12	5	((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and (ceramic or metal$5)	USPAT; US-PGPUB	2004/02/26 13:35
14	0	((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and (opto adj electronic$2)	USPAT; US-PGPUB	2004/02/26 13:37

15	0	(((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and (micro lens$2 adj array$2)	USPAT; US-PGPUB	2004/02/26 13:38
16	0	(((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and (photo adj detector$2)	USPAT; US-PGPUB	2004/02/26 13:39
17	1	(((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)) and (integrat$4 near3 optic$2)	USPAT; US-PGPUB	2004/02/26 13:40

11	5	(((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.)	USPAT; US-PGPUB	2004/02/26 13:41
18	1082	385/147.ccls.	USPAT; US-PGPUB	2004/02/26 14:00
19	3901	372/29.013,29.022,36,50,98,99,109.ccls.	USPAT; US-PGPUB	2004/02/26 14:01
20	8570	257/431-434,678,680,690,693,703-731,778-780.ccls.	USPAT; US-PGPUB	2004/02/26 14:02
21	6879	438/106-116,121-129.ccls.	USPAT; US-PGPUB	2004/02/26 14:02
22	19448	385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls.	USPAT; US-PGPUB	2004/02/26 14:02
23	47	(385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))	USPAT; US-PGPUB	2004/02/26 15:11
24	7	(385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2)) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)	USPAT; US-PGPUB	2004/02/26 14:05
25	5	((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) not ((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) OR ((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.))	USPAT; US-PGPUB	2004/02/26 14:27

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26	1	(((((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) not ((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)))	USPAT; US-PGPUB	2004/02/26 14:29
27	1	(((((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) not ((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)))	USPAT; US-PGPUB	2004/02/26 14:33
28	3	(((((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)) not ((((compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and (window$2 with (conduct$4 near3 (trace$2 or line$2 or connect$6)))) OR (((20030015776.pn. or 20030026303.pn. or 6674159.pn.) and (compact near4 (packag$6 or can or housing)) and (VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))) and ((optic$4 near3 (fiber$2 or cable or bundle)) with connect$6)))	USPAT; US-PGPUB	2004/02/26 14:33
29	172	((((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) OR (20030015776.pn. or 20030026303.pn. or 6674159.pn.))) and (detector or CCD)	USPAT; US-PGPUB	2004/02/26 15:10

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30		1	((385/147.ccls. OR 372/29.013,29.022,36,50,98,99,109.ccls. OR 257/431-434,678,680,690,693,703-706,729-731,778-780.ccls. OR 438/106-116,121-129.ccls.) and ((385/88,92,93,94).ccls.)) and (compact near4 (packag$6 or can or housing)) and	USPAT; US-PGPUB	2004/02/26 15:11

(VCSEL or (vertical adj cavity adj surface adj emit$6 adj laser$2))

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